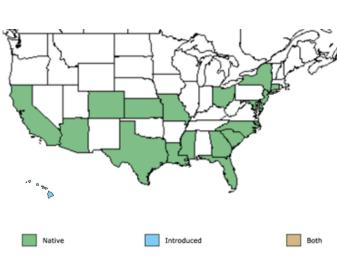
USACE Invasive Plant Species Best Management Practices

Waterlettuce (Pistia stratiotes) - Araceae (Arum)







Habitat & Life History

Aquatic/riparian - Native to Africa & unknown - OBL - Perennial floating-leaved forb/herb

Integrated Management Strategy Selections Prevention Chemical Biological Mechanical Cultural



PREVENTION

• Establish competitive native vegetation to prevent infestation, early detection & rapid response

CHEMICAL CONTROL



Use-pattern: spot or broadcast

*Refer to product label for specific instructions on rate & use-pattern



BIOLOGICAL CONTROL

- Agent—Neohydronomus affinis (water lettuce weevil)
- Rearing/Release—Field collection & transport, may require viable plant materials
- Potential biological agents—Argentinorhynchus bruchi, A. breyeri & A. squamosus (weevils); fungal pathogens Ramularia spp., & Sclerotinia sclerotiorum; releases of Spodoptera pectinicornis (water lettuce moth) in the 1990's were unsuccessful



MECHANICAL CONTROL

Hand pull, net, rake, use of harvester or seine

CULTURAL CONTROL

• Drawdown, nutrient reduction

MANAGEMENT SEQUENCING

- Timing of control methods—best option is to apply herbicides during early spring, however it can be applied vear-round
- Monitoring—closely monitor affected areas and retreat any new or existing growth
- Niche-filling/Restoration—mitigate risk of future disturbances and infestation, establish competitive native vegetation



COMMENTS

 Waterlettuce spreads by rosettes, stolons, & seeds; mechanical control may contribute to unintentional spread.

